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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/757,802	01/14/2004	Donald Ray Gillis	HIT1P050/HSJ9-2003-0209US	9036
50535	7590 04/19/2005		EXAMINER	
ZILKA-KOTAB, PC			RESAN, STEVAN A	
P.O. BOX 721120 SAN JOSE, CA 95172-1120			ART UNIT	PAPER NUMBER
ŕ			1773	
			DATE MAILED: 04/19/2005	•

Please find below and/or attached an Office communication concerning this application or proceeding.

·	Application No.	Applicant(s)	
<b></b>	10/757,802	GILLIS ET AL.	
Office Action Summary	Examiner .	Art Unit	
	Stevan A. Resan	1773	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication.  If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a re y within the statutory minimum of thirt will apply and will expire SIX (6) MON , cause the application to become AB	eply be timely filed  y (30) days will be considered timely.  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on      This action is FINAL. 2b)⊠ This      Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final.		
Disposition of Claims			
4) ☐ Claim(s) 1-15 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-15 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.		
Application Papers			
9) The specification is objected to by the Examine	РГ.		
10)⊠ The drawing(s) filed on 14 January 2004 is/are:	: a)⊠ accepted or b)□ o	bjected to by the Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct	•		
11) The oath or declaration is objected to by the Ex	ammer, note the attached	i Onice Action of John PTO-152.	
Priority under 35 U.S.C. § 119			
<ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority document:</li> <li>2. Certified copies of the priority document:</li> <li>3. Copies of the certified copies of the priority application from the International Bureau</li> </ul>	s have been received. s have been received in A rity documents have been	pplication No	
* See the attached detailed Office action for a list	of the certified copies not	received.	
Attachment(s)	•		
1) Notice of References Cited (PTO-892)		ummary (PTO-413)	
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date 1-14-2004.</li> </ul>		s)/Mail Date nformal Patent Application (PTO-152) 	

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

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1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The words "low" and "high" in claims 1-7,9-13,15 are relative terms which render the claims indefinite. The terms low and high are not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention.

Claims 2-8 claim "a method as recited in claim 1", however claim 1 is an article claim. Likewise claims 10 –14 claim a method as in claim 9 while claim 9 is directed to an article. Therefore claims 2-8 and 10-14 have not been treated on the merits and the independent article claims 1 and 9 and 15 (where the system contains a nominal head, slider, and control unit) have been presumptively elected by original presentation.

Claims 6 and 7 are deemed indefinite since reference to a standard deviation without a central tendency renders the limitation indefinite.

Also it is not clear from the claim language of what "scale" is intended.

Note that the inclusion of limitations to a head or slider in claims 1 and 9 are not claim limitations for a medium and therefore carry no weight.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1,9 and 15 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Takahashi et al US 6852010.

Takahashi et al discloses a magnetic disk having surface roughness and microwaviness. It would have been obvious to one of ordinary skill in the art to optimize these properties for a given magnetic head design and system configuration to get maximum output and durability.(See figures and embodiments 8-10 Col 21 line 45- Col 22 line 20.

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6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Sun et al is cited for teaching the polishing of a magnetic disk substrate to obtain a desired microwaviness and surface roughness Ra (See figures 5-8).

Oshima US 6818031, and Hagihara et al US 6454820 are cited for teaching polishing compounds to regulate surface roughness properties.

Yokoyama et al is cited for teaching the relationship of a touchdown height of a head slider to surface roughness.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stevan A. Resan whose telephone number is 571-272-1513. The examiner can normally be reached on Tues-Thurs from 7:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carol Chaney, can be reached at 571-272-1284. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

STEVAN A. RESAN